

TangoOpcUaAccess Tango Cpp Class

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TangoOpcUaAccess Class Identification :

Contact : at nexeya.com - sebastien.gara
Class Family : Miscellaneous
Platform : All Platforms

TangoOpcUaAccess Class Inheritance :

- [Tango::DeviceImpl](#)
 - TangoOpcUaAccess

Bus : Ethernet
Manufacturer : none
Manufacturer ref. :

TangoOpcUaAccess Class Description :

Opc Ua Access

TangoOpcUaAccess Properties :

There is no class properties

Device Properties			
Name	Description	Type	Default Value
OpcUaServerAddress	Opc Ua Server Address	String	opc.tcp://hostname:port
ConnectAtStartUp		boolean	none
OpcUaPolicyIndex	Policy index for the opc ua server Generally, 0 is for None	short	0

TangoOpcUaAccess Class Commands				
Name	Input type	Output type	Level	Description
State	DEV_VOID	DEV_STATE	OPERATOR	This command gets the device state (stored in its device_state data member) and returns it to the caller.
Status	DEV_VOID	CONST_DEV_STRING	OPERATOR	This command gets the device status (stored in its device_status data member) and returns it to the caller.
Connect	DEV_VOID	DEV_VOID	OPERATOR	Connection to the OPC UA

				server
Disconnect	DEV_VOID	DEV_VOID	OPERATOR	Disconnection to the OPC UA server
Browse	DEV_VOID	DEVVAR_STRINGARRAY	OPERATOR	Browse the OPC UA server
Call	DEVVAR_STRINGARRAY	DEVVAR_STRINGARRAY	OPERATOR	Call the specified method on the OPC UA server
RegisterNode	DEV_STRING	DEV_VOID	OPERATOR	Register to the specified node on the OPC UA server
UnregisterNode	DEV_STRING	DEV_VOID	OPERATOR	Unregister to the specified node on the OPC UA server
ReadDoubleValue	DEV_STRING	DEV_DOUBLE	OPERATOR	Read the double value of the specified node on the OPC UA server
WriteDoubleValue	DEVVAR_DOUBLESTRINGARRAY	DEV_VOID	OPERATOR	Write the double value on the specified node on the OPC UA server
Subscribe	DEV_VOID	DEV_VOID	OPERATOR	Subscription to the OPC-UA server
Unsubscribe	DEV_VOID	DEV_VOID	OPERATOR	Unsubscription to the OPC-UA server
ReadFloatValue	DEV_STRING	DEV_FLOAT	OPERATOR	Read the float value of the specified node on the OPC UA server
WriteFloatValue	DEVVAR_DOUBLESTRINGARRAY	DEV_VOID	OPERATOR	Write the float value on the specified node on the OPC UA server
ReadBoolValue	DEV_STRING	DEV_BOOLEAN	OPERATOR	Read the bool value of the specified node on the

				OPC UA server
WriteBoolValue	DEVVAR_LONGSTRINGARRAY	DEV_VOID	OPERATOR	Write the bool value on the specified node on the OPC UA server
ReadLongValue	DEV_STRING	DEV_LONG	OPERATOR	Read the long value of the specified node on the OPC UA server
WriteLongValue	DEVVAR_LONGSTRINGARRAY	DEV_VOID	OPERATOR	Write the long value on the specified node on the OPC UA server
ReadStringValue	DEV_STRING	DEV_STRING	OPERATOR	Read the string value of the specified node on the OPC UA server
WriteStringValue	DEVVAR_STRINGARRAY	DEV_VOID	OPERATOR	Write the String value on the specified node on the OPC UA server
ReadShortValue	DEV_STRING	DEV_SHORT	OPERATOR	Read the short value of the specified node on the OPC UA server
WriteShortValue	DEVVAR_LONGSTRINGARRAY	DEV_VOID	OPERATOR	Write the short value on the specified node on the OPC UA server
ReadLong64Value	DEV_STRING	DEV_LONG64	OPERATOR	Read the long64 value of the specified node on the OPC UA server
WriteLong64Value	DEVVAR_LONGSTRINGARRAY	DEV_VOID	OPERATOR	Write the long64 value on the specified node on the OPC UA server
ReadULongValue	DEV_STRING	DEV_ULONG	OPERATOR	Read the ulong value of the specified node on the

				OPC UA server
WriteULongValue	DEVVAR_LONGSTRINGARRAY	DEV_VOID	OPERATOR	Write the ulong value on the specified node on the OPC UA server
ReadUShortValue	DEV_STRING	DEV_USHORT	OPERATOR	Read the ushort value of the specified node on the OPC UA server
WriteUShortValue	DEVVAR_LONGSTRINGARRAY	DEV_VOID	OPERATOR	Write the ushort value on the specified node on the OPC UA server
ReadULong64Value	DEV_STRING	DEV_ULONG64	OPERATOR	Read the ulong64 value of the specified node on the OPC UA server
WriteULong64Value	DEVVAR_LONGSTRINGARRAY	DEV_VOID	OPERATOR	Write the ulong64 value on the specified node on the OPC UA server

Command State :

This command gets the device state (stored in its device_state data member) and returns it to the caller.

State Definition		
Input Argument	Tango::DEV_VOID	none
Output Argument	Tango::DEV_STATE	Device state
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	true	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command Status :

This command gets the device status (stored in its device_status data member) and returns it to the caller.

Status Definition		
Input Argument	Tango::DEV_VOID	none
Output Argument	Tango::CONST_DEV_STRING	Device status
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	true	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command Connect :

Connection to the OPC UA server

Connect Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none">• INIT• FAULT• RUNNING	..

Command Disconnect :

Disconnection to the OPC UA server

Disconnect Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none">• INIT• FAULT• STANDBY	..

Command Browse :

Browse the OPC UA server

Browse Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEVVAR_STRINGARRAY	OpcNodes
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none">• INIT• FAULT• STANDBY	..

Command Call :

Call the specified method on the OPC UA server

Call Definition

Input Argument	Tango::DEVVAR_STRINGARRAY	Name of the method, parameters
Output Argument	Tango::DEVVAR_STRINGARRAY	Result
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none"> • INIT • FAULT • STANDBY 	..

Command RegisterNode :

Register to the specified node on the OPC UA server

RegisterNode Definition		
Input Argument	Tango::DEV_STRING	Node
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none"> • INIT • FAULT • STANDBY 	..

Command UnregisterNode :

Unregister to the specified node on the OPC UA server

UnregisterNode Definition		
Input Argument	Tango::DEV_STRING	Node
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..

Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none"> INIT FAULT STANDBY 	..

Command ReadDoubleValue :

Read the double value of the specified node on the OPC UA server

ReadDoubleValue Definition		
Input Argument	Tango::DEV_STRING	Node
Output Argument	Tango::DEV_DOUBLE	Value
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none"> INIT FAULT STANDBY 	..

Command WriteDoubleValue :

Write the double value on the specified node on the OPC UA server

WriteDoubleValue Definition		
Input Argument	Tango::DEVVAR_DOUBLESTRINGARRAY	Node, value
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
	<ul style="list-style-type: none"> INIT 	

Command NOT allowed for	<ul style="list-style-type: none"> • FAULT • STANDBY 	..
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Command Subscribe :

Subscription to the OPC-UA server

Subscribe Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
		..
Command NOT allowed for	<ul style="list-style-type: none"> • INIT • FAULT • STANDBY 	..

Command Unsubscribe :

Unsubscription to the OPC-UA server

Unsubscribe Definition		
Input Argument	Tango::DEV_VOID	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
		..
Command NOT allowed for	<ul style="list-style-type: none"> • INIT • FAULT • STANDBY 	..

Command ReadFloatValue :

Read the float value of the specified node on the OPC UA server

ReadFloatValue Definition		
Input Argument	Tango::DEV_STRING	Node
Output Argument	Tango::DEV_FLOAT	Value
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none">• INIT• FAULT• STANDBY	..

Command WriteFloatValue :

Write the float value on the specified node on the OPC UA server

WriteFloatValue Definition		
Input Argument	Tango::DEVVAR_DOUBLESTRINGARRAY	Node, value
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none">• INIT• FAULT• STANDBY	..

Command ReadBoolValue :

Read the bool value of the specified node on the OPC UA server

ReadBoolValue Definition		
Input Argument	Tango::DEV_STRING	Node
Output Argument	Tango::DEV_BOOLEAN	Value
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none"> • INIT • FAULT • STANDBY 	..

Command WriteBoolValue :

Write the bool value on the specified node on the OPC UA server

WriteBoolValue Definition		
Input Argument	Tango::DEVVAR_LONGSTRINGARRAY	Node, value
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none"> • INIT • FAULT • STANDBY 	..

Command ReadLongValue :

Read the long value of the specified node on the OPC UA server

ReadLongValue Definition		
Input Argument	Tango::DEV_STRING	Node

Output Argument	Tango::DEV_LONG	Value
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none"> • INIT • FAULT • STANDBY 	..

Command WriteLongValue :

Write the long value on the specified node on the OPC UA server

WriteLongValue Definition		
Input Argument	Tango::DEVVAR_LONGSTRINGARRAY	Node, value
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none"> • INIT • FAULT • STANDBY 	..

Command ReadStringValue :

Read the string value of the specified node on the OPC UA server

ReadStringValue Definition		
Input Argument	Tango::DEV_STRING	Node
Output Argument	Tango::DEV_STRING	Value
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..

Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none"> • INIT • FAULT • STANDBY 	..

Command WriteStringValue :

Write the String value on the specified node on the OPC UA server

WriteStringValue Definition		
Input Argument	Tango::DEVVAR_STRINGARRAY	Node, value
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none"> • INIT • FAULT • STANDBY 	..

Command ReadShortValue :

Read the short value of the specified node on the OPC UA server

ReadShortValue Definition		
Input Argument	Tango::DEV_STRING	Node
Output Argument	Tango::DEV_SHORT	Value
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none"> • INIT • FAULT • STANDBY 	..

Command WriteShortValue :

Write the short value on the specified node on the OPC UA server

WriteShortValue Definition		
Input Argument	Tango::DEVVAR_LONGSTRINGARRAY	Node, value
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none">• INIT• FAULT• STANDBY	..

Command ReadLong64Value :

Read the long64 value of the specified node on the OPC UA server

ReadLong64Value Definition		
Input Argument	Tango::DEV_STRING	Node
Output Argument	Tango::DEV_LONG64	Value
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none">• INIT• FAULT• STANDBY	..

Command WriteLong64Value :

Write the long64 value on the specified node on the OPC UA server

WriteLong64Value Definition		
Input Argument	Tango::DEVVAR_LONGSTRINGARRAY	Node, value
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none">• INIT• FAULT• STANDBY	..

Command ReadULongValue :

Read the ulong value of the specified node on the OPC UA server

ReadULongValue Definition		
Input Argument	Tango::DEV_STRING	Node
Output Argument	Tango::DEV_ULONG	Value
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none">• INIT• FAULT• STANDBY	..

Command WriteULongValue :

Write the ulong value on the specified node on the OPC UA server

WriteULongValue Definition		
Input Argument	Tango::DEVVAR_LONGSTRINGARRAY	Node, value
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none"> • INIT • FAULT • STANDBY 	..

Command ReadUShortValue :

Read the ushort value of the specified node on the OPC UA server

ReadUShortValue Definition		
Input Argument	Tango::DEV_STRING	Node
Output Argument	Tango::DEV_USHORT	Value
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none"> • INIT • FAULT • STANDBY 	..

Command WriteUShortValue :

Write the ushort value on the specified node on the OPC UA server

WriteUShortValue Definition		
Input Argument	Tango::DEVVAR_LONGSTRINGARRAY	Node, value
Output Argument	Tango::DEV_VOID	

DisplayLevel Inherited	OPERATOR false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none"> INIT FAULT STANDBY 	..

Command ReadULong64Value :

Read the ulong64 value of the specified node on the OPC UA server

ReadULong64Value Definition		
Input Argument	Tango::DEV_STRING	Node
Output Argument	Tango::DEV_ULONG64	Value
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command NOT allowed for	<ul style="list-style-type: none"> INIT FAULT STANDBY 	..

Command WriteULong64Value :

Write the ulong64 value on the specified node on the OPC UA server

WriteULong64Value Definition		
Input Argument	Tango::DEVVAR_LONGSTRINGARRAY	Node, value
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..

Command NOT allowed for	<ul style="list-style-type: none">• INIT• FAULT• STANDBY	..
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There is no attribute defined.

There is no dynamic attribute defined.

TangoOpcUaAccess Class States	
Name	Description
INIT	Initialization state
FAULT	There is a FAULT on the device
RUNNING	The device is connected
STANDBY	The device is up and ready